

# EUROPEAN PATENT OFFICE

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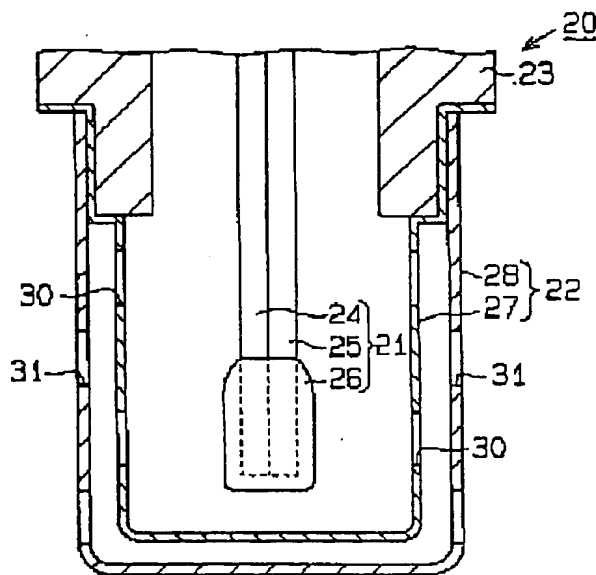
APPLICATION DATE : 11-12-96  
APPLICATION NUMBER : 08331141

APPLICANT : TOYOTA MOTOR CORP;

INVENTOR : KIKUCHI TOMOSHI;

INT.CL. : G01N 27/409 F02B 77/08 F02D 35/00

TITLE : OXYGEN SENSOR



ABSTRACT : PROBLEM TO BE SOLVED: To restrain a deposit from adhering to an oxygen sensor.

SOLUTION: An oxygen sensor 20 mounted to a suction pipe of a diesel engine is provided with an element part 21 of a solid electrolyte, e.g. zirconia element or the like, and an inner cover 27 and an outer cover 28 of a double- pipe structure having a plurality of introduction holes 30, 31. An alumina porous layer 26 is formed at a leading end part of the element part 21 to cover the leading end part. A surface of the porous layer 26 and an outer peripheral face of the outer cover 28 are coated with a fluoroalkylsilane(FAS) coating.

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